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In the Claims:

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Please add the following claims:

- An apparatus for decompressing video data, comprising: 1. 1 a start code detector to convert a portion of a stream of video data into a 2 stream of data tokens in response to detecting a start code sequence in said stream 3 of video data; and 4 a pipeline having stages and being capable of decoding video data, the start 5
 - code detector being coupled to send the data tokens to the pipeline.
- The apparatus of claim 1, wherein a plurality of the stages of said 2. 1 pipeline have operating modes responsive to the format of said tokens. 2
 - The apparatus of claim 1, further comprising an inserter of search mode 3. tokens to transmit search mode tokens into the stream of video data.
- The apparatus of claim 1, wherein the start code detector is capable of 4. 1 searching for video start codes complying with different formats. 2
- 5. The apparatus of claim 4, wherein said formats include formats complying with at least two of the video standards selected from the group consisting of JPEG, 2 3 MPEG, and H.261.

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- 6. The apparatus of claim 3, wherein the start code detector ignores video data until a video start code is found in response to receiving one of the search mode tokens.
- 7. The apparatus of claim 1, further comprising:
 two-wire interfaces coupling the consecutive stages of the pipeline.
- 1 8. The apparatus of claim 7, wherein the two-wire interfaces transmit data 2 valid and data acceptance signals.
- 9. The apparatus of claim 1, wherein the start code detector is adapted to introduce new tokens into the stream of video data at detected start code sequences.
- 1 10. The apparatus of claim 2, wherein a portion of the stages of the pipeline reconfigure themselves to process data in response to receiving predetermined types of tokens.
- 1 11. The apparatus of claim 9, wherein the start code detector introduces 2 picture end tokens into the stream of video data.
- 1 12. The apparatus of claim 1, wherein the start code detector is a hardware 2 device.
- 13. The apparatus of claim 1, wherein the pipeline includes:
 a Huffman decoder coupled to receive data from the start code

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3 detector; a token formatter coupled to data from the Huffman decoder; 4 an inverse modeler coupled to receive data from the token formatter; 5 6 and an inverse quantizer coupled to receive data from the inverse modeler. 7 14. A method for decoding encoded video data, comprising: 1 receiving a portion of a video data stream in a multi-stage pipelined decoder; 2 inserting tokens into the received portion of the video data stream at least one 3 of the tokens being a search mode token; 4 detecting the search mode token in a special one of the stages; and 5 searching for a start code token in the video data stream in response to 6 detecting the search mode token in the special one of the stages. 7 15. The method of claim 14, further comprising: 1 making a random access into the data stream to receive the portion of the 2 video stream; and 3 wherein the search mode token is inserted in response to making the random 4 5 access. 16. The method of claim 15, wherein the random access results from one of 1 an error and a channel switch. 2

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17. The method of claim 15, further comprising:

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- reconfiguring stages of the decoder to decode video data in response to 2 3 detecting the start code token.
- 18. The method of claim 17, wherein searching recognizes start code tokens 1 corresponding to video data encoded according to one of the standards MPEG, 2 3 JPEG, and H.261.
- 19. A pipelined decoder for processing encoded video data, comprising: a pipeline having a plurality of stages for receiving and decoding a portion of a video data stream; 3
 - a means for inserting tokens into the video data stream at least one of the tokens being a search mode token; and
 - a start code detector to search for start code tokens in the video data stream in response to detecting the search mode token.
- 20. The decoder of claim 19, wherein the means for inserting inserts a search 1 mode token into the data stream in response to making a random access into the 2 3 video data stream.
- 21. The decoder of claim 20, wherein the random access results from one of 1 an error and a channel switch. 2
- 22. The decoder of claim 20, wherein a plurality of the stages reconfigure 1 themselves to decode video data in response a start code token. 2

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- 1 23. The decoder of claim 22, wherein the start code token corresponds to video data encoded according to one of the standards MPEG, JPEG, and H.261. 2 24. The decoder of claim 20, further comprising: 1 a semiconductor substrate, the pipeline, means for inserting and start code 2 detector being located on the substrate. 3 25. A system for decoding video data into picture frames, comprising: 1 a start code detector to search for a start code sequence in a stream of video 2 data in response to detecting a search mode token therein and to convert a portion of 3 the stream of video data into data tokens in response to detecting a start code 4 sequence in said stream of video data; and 5 a decoder coupled to receive the data tokens from the start code detector and 6 to decode the received data tokens into picture frames, the decoder capable of 7 decoding multiple standards. 8 26. The system of claim 25, further comprising an inserter of search mode 1 2
 - tokens coupled to insert search mode tokens into the stream of video data.
- 27. The system of claim 25, wherein the standards include two of JPEG, 1 2 MPEG, and H.261.
- The system of claim 25, wherein the decoder further comprises: 1 28.
- 2 a Huffman decoder;
- an inverse quantizer coupled to the Huffman decoder; and 3

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